

RRVV2HH-6533B-R6



16-port sector antenna, 4x 694–960, 4x 1695–2690 MHz 65° HPBW and 8x 1695–2400 MHz 2x 2-beam 33° HPBW, 6x RET. Bands cascaded SRET

- All Internal RET actuators are connected in “Cascaded SRET” configuration

General Specifications

Antenna Type	Multibeam
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	12
RF Connector Quantity, low band	4
RF Connector Quantity, total	16

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	High band (4) Low band (2)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	10 W
Protocol	3GPP/AISG 2.0 (Single RET)


Dimensions

Width	498 mm 19.606 in
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Depth	197 mm 7.756 in
Length	2100 mm 82.677 in
Net Weight, without mounting kit	46 kg 101.413 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
Y1	1695-2400	5-6	3	CPxxxxxxxxxxxxxxxxY1
Y3	1695-2400	9-10		
Y2	1695-2400	7-8	4	CPxxxxxxxxxxxxxxxxY2
Y4	1695-2400	11-12		
Y5	1695-2690	13-14	5	CPxxxxxxxxxxxxxxxxY5
Y6	1695-2690	15-16	6	CPxxxxxxxxxxxxxxxxY6

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2400 MHz 1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,300 W @ 50 °C

Electrical Specifications

	R1-R2	R1-R2	R1-R2	HB-Dual-Beam2	HB-Dual-Beam2	Y1-Y2	Y1-Y2
Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2400	1695–2180	2300–2690
Gain, dBi	15.1	15.3	15.6	16.6	18.2	17	18.3
Beam Centers, Horizontal, degrees				±27	±27		
Beamwidth, Horizontal, degrees	72	67	64	32	28	71	58
Beamwidth, Vertical, degrees	11	9.8	9	9.5	8.2	7.1	5.6
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	17	18	16	18	19	22
Front-to-Back Ratio at 180°, dB	32	31	32	34	33	33	33
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25
Isolation, Inter-band, dB	28	28	28	17	17	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2400	1695–2180	2300–2690
Gain by all Beam Tilts, average, dBi	14.5	14.9	15.4	16.1	17.6	16.2	17.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.3	±1.3	±1.1	±1.1	±0.6
Gain by Beam Tilt, average, dBi	2° 14.6 7° 14.6 12° 14.5	2° 14.9 7° 15.0 12° 14.9	2° 15.3 7° 15.5 12° 15.3	2° 16.1 7° 16.2 12° 15.8	2° 17.7 7° 17.8 12° 17.0	2° 16.4 7° 16.3 12° 16.0	2° 17.6 7° 18.0 12° 17.6
Beamwidth, Horizontal Tolerance, degrees	±6.5	±6.5	±2.9	±2.7	±2.7	±7.2	±5.5

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Beamwidth, Vertical Tolerance, degrees	±0.6	±0.6	±0.6	±0.8	±0.8	±0.8	±0.4
USLS, beampeak to 20° above beampeak, dB	17	17	16	16	17	15	16
Front-to-Back Total Power at 180° ± 30°, dB	21	22	21	28	28	25	25
CPR at Boresight, dB	19	20	19	20	20	18	24
CPR at Sector, dB	12	10	13			8	5
CPR at 10 dB Horizontal Beamwidth, dB				6	10		

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.75 m ² 8.073 ft ²
Effective Projective Area (EPA), lateral	0.26 m ² 2.799 ft ²
Mechanical Tilt Range	0°–12°
Wind Loading @ Velocity, frontal	803.0 N @ 150 km/h (180.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	275.0 N @ 150 km/h (61.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,040.0 N @ 150 km/h (233.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	661.0 N @ 150 km/h (148.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	368 mm 14.488 in
Length, packed	2279 mm 89.724 in
Weight, gross	59.8 kg 131.836 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



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Included Products

- BSAMNT-4 – Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance